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TI Regeneration of diglycol terephthalate from poly (ethylene terephthalate) waste
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AB Polymer-grade bis(2-hydroxyethyl) terephthalate (I) [959-26-2] was regenerated from poly(ethylene terephthalate) (II) [25038-59-9] waste in substantial yield by refluxing II waste with ethylene glycol [107-21-1] and a catalyst (e.g., carbonates and acetates of Zn and Ca) for ≤ 3 h, immediately filtering the product, chilling the filtrate to 85-90°, cooling further to room temperature, separating crystals of I by filtration, and recrystg. by dissolving in boiling water, allowing the solution to cool to room temperature, and removing the crystals formed by filtration.